

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-313170

(43)Date of publication of application : 14.11.2000

(51)Int.Cl.

B41M 5/26
G11B 7/0045
G11B 7/24
// G22C 12/00

(21)Application number : 2000-053146

(71)Applicant : MITSUBISHI CHEMICALS CORP

(22)Date of filing : 29.02.2000

(72)Inventor : ONO TAKASHI

(30)Priority

Priority number : 11052296 Priority date : 01.03.1999 Priority country : JP

(54) OPTICAL INFORMATION RECORDING MEDIUM, METHOD FOR REGENERATING IT AND METHOD FOR RECORDING

(57)Abstract:

PROBLEM TO BE SOLVED: To improve stability of an amorphous mark and to deal with a linear speed of a wide range by forming a phase change type recording layer of a specific composition in an optical information recording medium having at least the phase change type recording layer on a substrate such as a high density optical disk or the like utilizing a rewritable phase change medium.

SOLUTION: A phase change type recording layer of a rewritable disk such as a high density optical disk or the like is formed of a composition represented by the formula $((Sb_xTe_{1-x})_yGe_{1-y})_zM_{1-z}$, wherein x is number of a range of $0.7 \leq x \leq 0.9$, y is number of a range of $0.8 \leq y < 1$, z is number of a range of $0.88 \leq z < 1$, and M is In and/or Ga. In order to record a mark length-modulated information on such an optical information recording medium, a crystal state portion is processed in an unrecorded and erased state, an amorphous portion is processed in a recorded state, and an amorphous portion between recording marks is processed to be irradiated with a recording light of crystallizable erasing power.

LEGAL STATUS

[Date of request for examination]

28.08.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office